

**K.L.E. Society's S. Nijalingappa College,  
II Block, Rajajinagar, Bangalore-10**

**Syllabus for Value added course on Herbal Medicine**

**For the academic year – 2020-21**

**UNIT I**

**2hrs**

**HISTORY OF MEDICINAL PLANTS**

History of medicinal plants ; Importance of medicinal plants; Relevance of herbal medicine as primary health care package for the masses in the 21st century; Herbal industry; An brief account of AAYUSH – Amchi (Tibetan), Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy.

**UNIT II**

**5hrs**

**STUDY OF HIGHLY USED MEDICINAL PLANTS**

Potentials of medicinal plants in Indian Scenario; Study of few medicinal plants -

*Vinca rosea; Rauwolfia serpentine; Withania somnifera; Coleus forskohlii; Emblica officinalis; Saraca asoca; Aloe vera; Glycyrrhiza glabra; Bacopa monnieri, Centella asiatica, Tinospora cordifolia, Garcinia indica, Eclipta alba, Gymnema sylvestris, Cymbopogon citratus, Vetiveria zizanioides, Piper longum, Phyllanthus amarus, Cassia angustifolia (Tirunelveli senna), Morinda citrifolia (Noni), Andrographis paniculata .*

**UNIT III**

**3 hrs**

**EXTRACTION OF HERBAL DRUGS**

Process technology- Soxhlet extraction, steam distillation and vaporization; extraction of phytopharmaceuticals – selection of plant material, collection, identification, drying and grinding, cutting, processing and powdering of herbs; choice of solvent; Extraction methods – infusion, decoction, maceration and percolation; Guidelines for harvesting medicinal plants.

**UNIT IV**

**3 hrs**

**PREPARATION OF MEDICINES**

Herbal preparations for primary health care: aromatic water, fresh juice, decoctions, infusions, poultice, oils, ghee and syrups (Solid, dry, soft and liquid). Remedial plants for lifestyle disorders.

## **UNIT V**

**1hr**

### **SAFETY AND EFFICACY OF PLANT DRUGS**

General rule and standardization of using plant material as medicine. Pharmacovigilance – Federal food, drug and cosmetic act, its amendments with reference to India.

## **UNIT VI**

**3hrs**

### **HOME HERBAL GARDEN**

Use of plant materials for primary health care (Plants from home herbal garden) –Hair care, joint pain, cold and cough, digestive disorders, women's health, child health, skin care and revitalizers. Aromatic plants- Aromatherapy ; therapeutic value of Jasmine, Lavender, Eucalyptus and Rosmarinus.

## **UNIT VII**

### **BIOPESTICIDES**

**3hrs**

Definition, scope and classification of biopesticides. Mass production and technology of biopesticides for treating plant diseases

## **PRACTICALS**

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| 1. Herbal preparation of different Churna   | 2unit |
| 2. Herbal preparation of different Rasayana | 2unit |
| 3. Herbal preparation of different Lepa     | 2unit |
| 4. Herbal preparation of different Taila    | 2unit |
| 5. Herbal preparation of different Vati     | 2unit |

### **Distribution of work:**

<b>Total Teaching hours (Theory)</b>	<b>:</b>	<b>20</b>
<b>Total Practical hours</b>	<b>:</b>	<b>30</b>
<b>Field visit &amp; Practical Report</b>	<b>:</b>	<b>10</b>
<b>Grand total working hours</b>	<b>:</b>	<b>60</b>

Laboratory work will be conducted in the Lab-I, Lab-II of the Botany department.

